

Title (en)  
ULTRASONIC TRANSDUCER

Title (de)  
ULTRASCHALLWANDLER

Title (fr)  
TRANSDUCTEUR ULTRASONORE

Publication  
**EP 0993344 B1 20030129 (DE)**

Application  
**EP 98941228 A 19980625**

Priority  
• DE 9801734 W 19980625  
• DE 19727877 A 19970630

Abstract (en)  
[origin: DE19727877A1] The inventive ultrasonic transducer (1) has a pot-shaped housing, the bottom surface of said housing being partly configured as an oscillating membrane (3). A stabilising ring is provided on the exterior surface of the wall of said pot-shaped housing. Said stabilising ring (6) gives the housing greater rigidity and restricts the ultrasonic oscillation essentially to the base of the pot shape (3) which forms the oscillating membrane. The propagation and reception beam of the ultrasonic waves can be shaped further by means of an additional sound-directing device (7) located in the area of the oscillating membrane (3).

IPC 1-7  
**B06B 1/06**

IPC 8 full level  
**H04R 17/00** (2006.01); **B06B 1/06** (2006.01); **G10K 9/122** (2006.01); **G10K 11/00** (2006.01); **G10K 11/26** (2006.01); **H04R 1/22** (2006.01); **G01S 7/521** (2006.01)

CPC (source: EP US)  
**G10K 9/122** (2013.01 - EP US); **G10K 11/004** (2013.01 - EP US); **G10K 11/26** (2013.01 - EP US); **G01S 7/521** (2013.01 - EP US)

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